IN THE CLAIMS

1. (currently amended) A permanent magnet brushless motor comprising:

a stator comprising one or more phases, wherein at least one given phase of the stator includes a plurality of winding sections:

a rotor rotatably mounted relative to the stator and comprising at least one permanent magnet; and

a winding divided into a plurality of sections and switch means comprising a plurality of switching devices for simultaneously selectively connecting all of the winding sections of the given phase winding in one of a plurality of different configurations, wherein said switching devices are disposed at opposite ends of each winding section and are arranged to connect each winding section is connected in series and/or parallel with all other winding sections of the given phase winding.

 (currently amended) A permanent magnet brushless motor as claimed in claim 1, wherein:

in which the switch means is arranged to connect all of the winding sections of the given phase in parallel.

3. (currently amended) A permanent magnet brushless motor as claimed in claim 1, wherein:

in which the switch means is arranged to connect all of the winding sections of the given phase in series. (currently amended) A permanent magnet brushless motor as claimed in claim 1, wherein;

in which the switch means is arranged to connect some of the winding sections of the given phase in parallel, with at least one other winding section of the given phase being connected in series with the parallel-connected winding sections.

 (currently amended) A permanent magnet brushless motor as claimed in claim 1, wherein:

in which the voltage applied to the winding sections of the given phase is pulsewidth modulated.

6. (currently amended) A permanent magnet brushless motor as claimed in claim 5, wherein:

in which the voltage applied to the winding sections of the given phase is pulsewidth modulated by selectively energising said switch means.

7. (currently amended) A permanent magnet brushless motor as claimed in claim 1, <u>further comprising:</u>

means for repeatedly actuating said switch means to change said winding sections between different connection configurations to obtain a motor characteristic intermediate that of the connection configurations between which the winding sections windings are repeatedly switched.

8. (currently amended) A permanent magnet brushless motor as claimed in claim 1,

<u>further</u> comprising:

control means for actuating the switch means to vary the <u>connection</u> configuration of the winding <u>sections</u> eonnections whilst the motor is running, in accordance with predetermined operating parameters.

(currently amended) A permanent magnet brushless motor as claimed in claim 8, wherein:

in which the control means is <u>adapted</u> able to vary the <u>connection</u> configuration of the winding <u>sections</u> connections whilst the motor is running, in accordance with the output of means for sensing an operating parameter of the motor.

10. (currently amended) A permanent magnet brushless motor as claimed in claim 8, wherein:

in which the control means is <u>adapted</u> able to vary the <u>connection</u> configuration of the winding <u>sections</u> connections whilst the motor is running, in accordance with the output of means for sensing an operating parameter of the article being driven by the motor.

11. (currently amended) A permanent magnet brushless motor as claimed in claim 8, wherein:

in which the control means is adapted able to vary the connection configuration of

the winding sections connections of a conducting phase whilst the motor is running, in

accordance with the back emf measured across a the winding of non-conducting phase or

a winding section thereof.

12. (currently amended) A permanent magnet brushless motor as claimed in claim 8,

wherein:

in which the control means is adapted able to vary the connection configuration of

the winding sections connections whilst the motor is running, in accordance with time or

an operating cycle or program.

13. (currently amended) A permanent magnet brushless motor as claimed in claim 8,

wherein:

in which the control means comprises means for manually changing the

connection configuration of the winding sections connections.

14. (currently amended) A permanent magnet brushless motor as claimed in claim 1,

wherein:

in which all of the winding sections of the given phase or each winding are wound

in parallel to each other.

15. (currently amended) A permanent magnet brushless motor as claimed in claim 1,

wherein:

in which the winding sections of the given phase winding are connected such that

Page 5 of 10

current flows through each winding section in the same direction.

16. (currently amended) A permanent magnet brushless motor as claimed in claim 1, wherein:

in which one of the <u>winding</u> sections of the <u>given phase</u> winding comprises a different number of turns from another winding section of the given phase.

17. (currently amended) A permanent magnet brushless motor as claimed in claim 1, wherein:

in which one of the <u>winding</u> sections of the <u>given phase</u> winding comprises a conductor having a different cross-sectional area than the conductor of another <u>winding</u> section of the given phase.